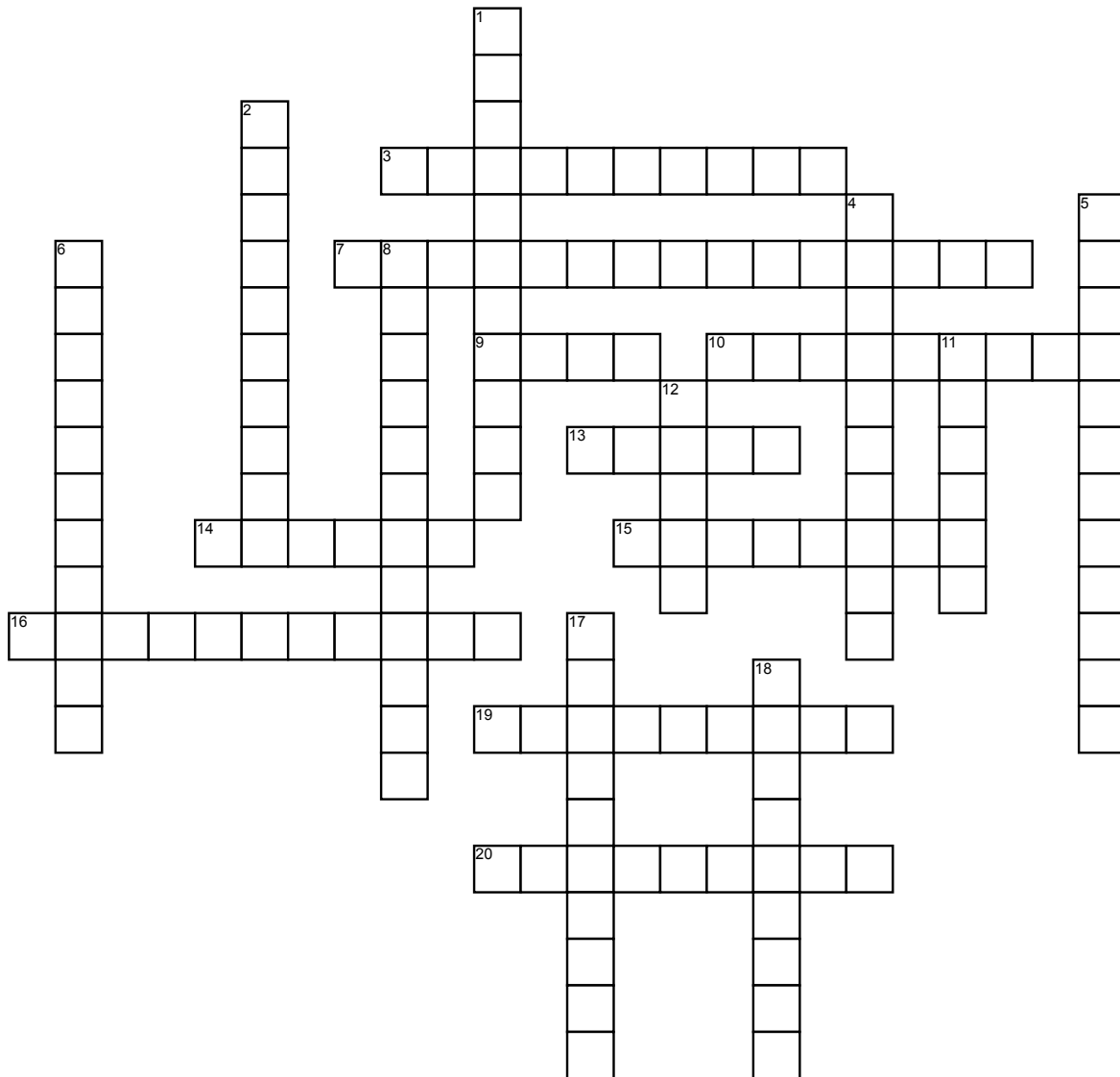


Name: \_\_\_\_\_

# Science



## **Across**

- 3.** the bending of a wave as the wave passes from one medium to another at an angle
- 7.** a wave that can transfer energy without a medium
- 9.** any disturbance that transmits energy through matter or empty space
- 10.** the maximum distance that the particles of a wave's medium vibrate from their rest position
- 13.** the highest point of a transverse wave
- 14.** a physical environment in which phenomena occur
- 15.** a pattern of vibration that simulates a wave that is standing still

- 16.** the bending of waves around a barrier or through an opening
- 19.** the speed at which a wave travels through a medium
- 20.** the number of waves produced in a given amount of time

## **Down**

- 1.** the combination of a transverse wave and longitudinal wave
- 2.** a wave in which the particles vibrate up and down
- 4.** when a wave bounces back after hitting a barrier
- 5.** result of two or more waves overlapping
- 6.** part of a longitudinal wave where the particles are crowded together

- 8.** a wave in which the particles of the medium vibrate parallel to the direction of wave motion
- 11.** the lowest point between each crest
- 12.** the way frequency is usually expressed
- 17.** the distance between any two crests or compressions next to each other in a wave
- 18.** when an object vibrating at or near the resonant frequency of a second object causes the second object to vibrate